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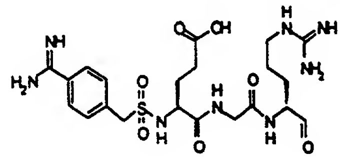
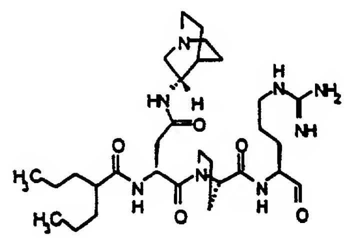
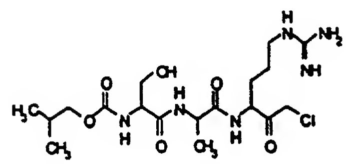
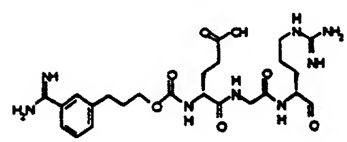
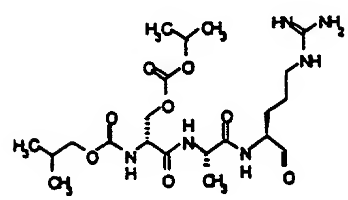
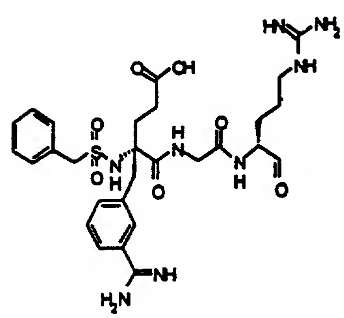
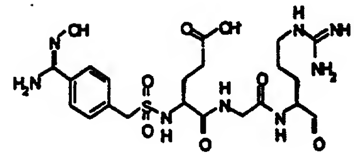
1	
2	
3	
4	
5	
6	
7	

FIGURE 1A

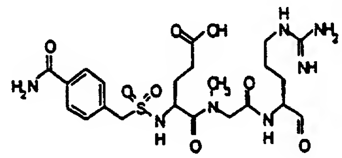
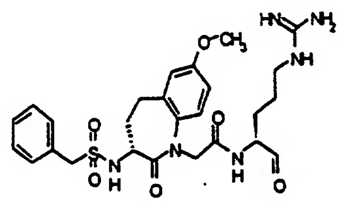
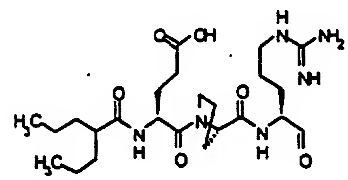
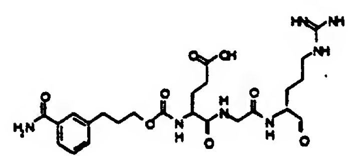
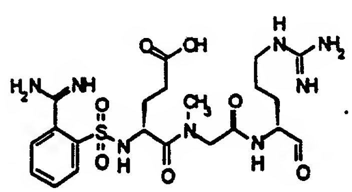
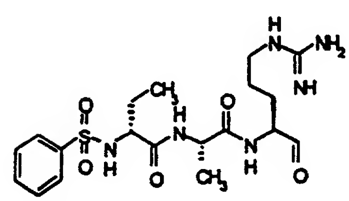
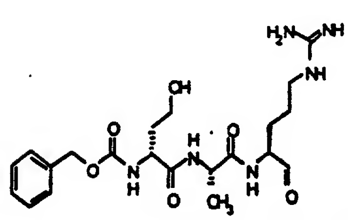
Compd #	MOLSTRUCTURE
8	
9	
10	
11	
12	
13	
14	

FIGURE 1B

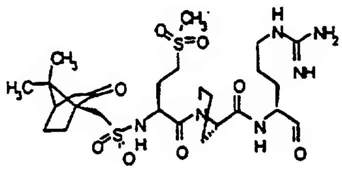
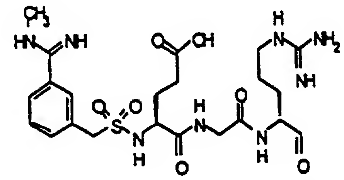
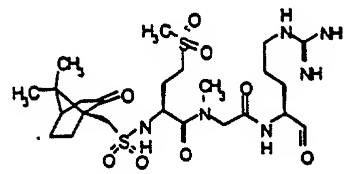
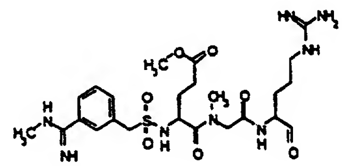
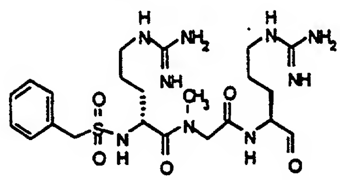
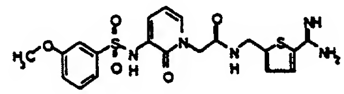
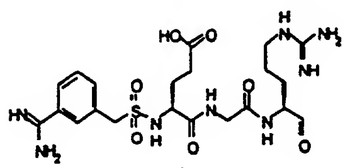
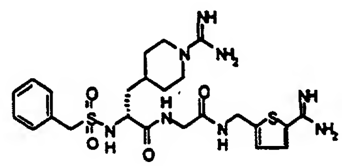
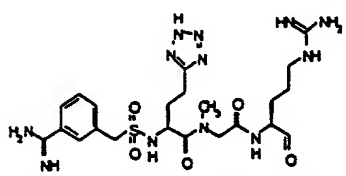
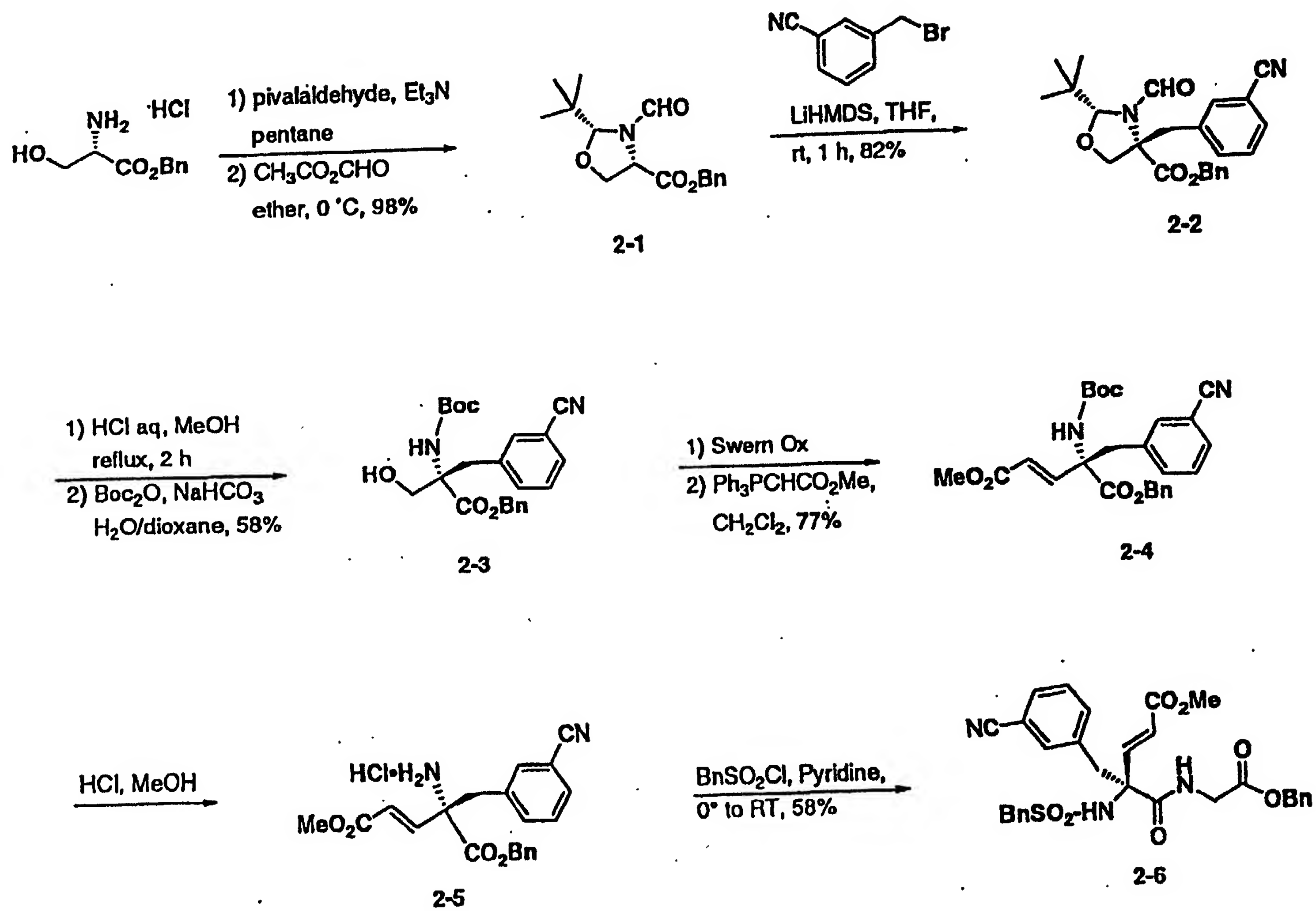
Compd #	MOLSTRUCTURE	Compd #	MOLSTRUCTURE
15		20	
16		21	
17		22	
18		23	
19			

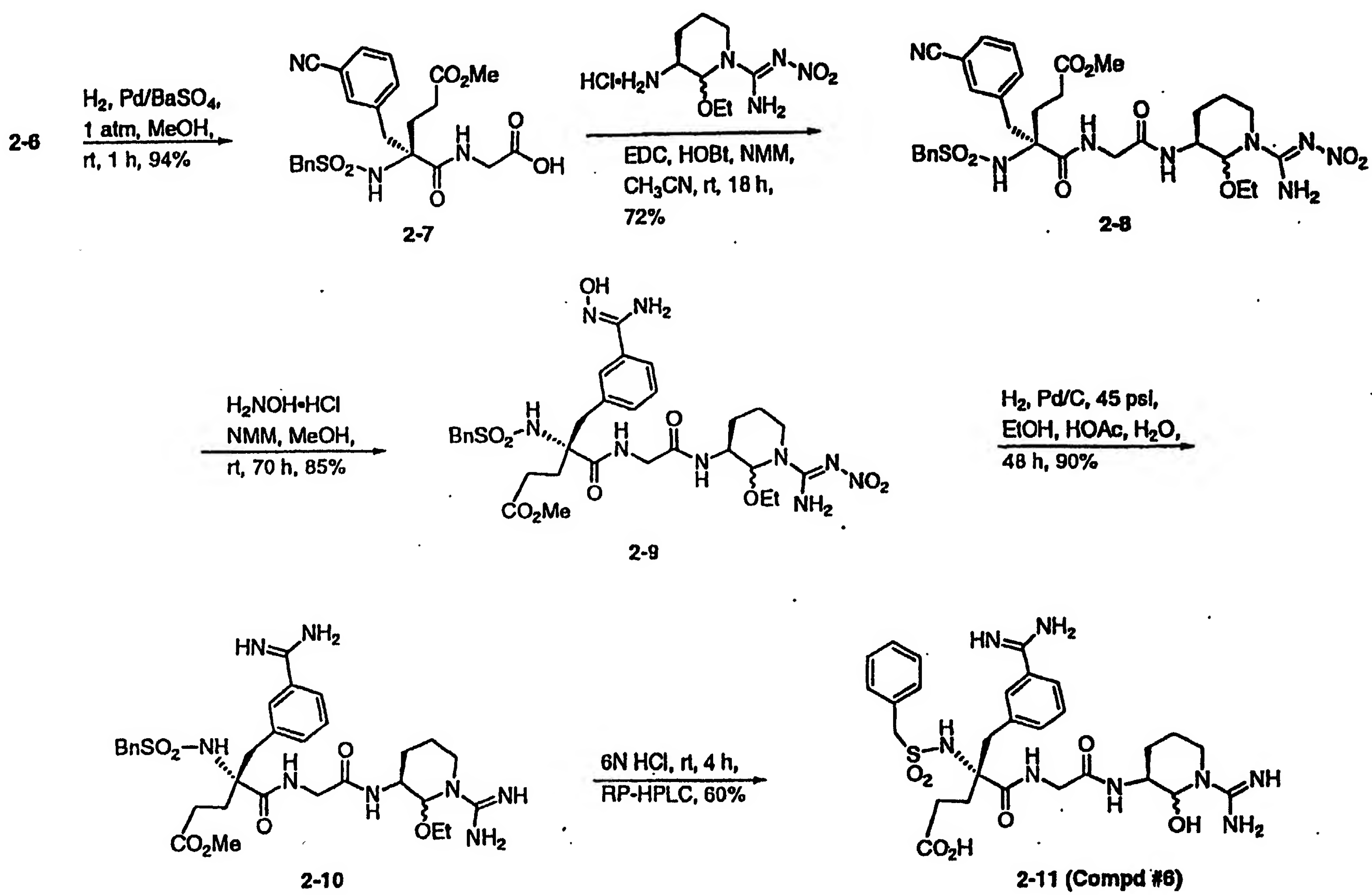
FIGURE 1C

FIGURE 2A



HCl
1) pivalaldehyde, Et_3N
pentane
2) CH_3CO_2CHO
ether, 0 °C, 98%
2-1
LiHMDS, THF,
rt, 1 h, 82%
2-2
1) HCl aq, MeOH
reflux, 2 h
2) Boc_2O, $NaHCO_3$
H_2O/dioxane, 58%
2-3
1) Swern Ox
2) Ph_3PCHCO_2Me,
CH_2Cl_2, 77%
2-4
HCl, MeOH
2-5
$BnSO_2Cl$, Pyridine,
0° to RT, 58%
2-6

FIGURE 2B


2-6
H$_2$, Pd/BaSO$_4$, 1 atm, MeOH, rt, 1 h, 94%
2-7
EDC, HOBt, NMM, CH$_3$CN, rt, 18 h, 72%
2-8
H$_2$NOH•HCl NMM, MeOH, rt, 70 h, 85%
2-9
H$_2$, Pd/C, 45 psi, EtOH, HOAc, H$_2$O, 48 h, 90%
2-10
6N HCl, rt, 4 h, RP-HPLC, 60%
2-11 (Compd #6)

```
        10        20        30        40        50        60
GTTGTTGGGGGCACGGATGCGGATGAGGGCGAGTGGCCCTGGCAGGTAAGCCTGCATGCT
CAACAACCCCCGTGCCTACGCCTACTCCCGCTCACCGGGACCGTCCATTCGGACGTACGA
 V  V  G  G  T  D  A  D  E  G  E  W  P  W  Q  V  S  L  H  A>

        70        80        90       100       110       120
CTGGGCCAGGGCCACATCTGCGGTGCTTCCCTCATCTCTCCCAACTGGCTGGTCTCTGCC
GACCCGGTCCCGGTGTAGACGCCACGAAGGGAGTAGAGAGGGTTGACCGACCAGAGACGG
 L  G  Q  G  H  I  C  G  A  S  L  I  S  P  N  W  L  V  S  A>

       130       140       150       160       170       180
GCACACTGCTACATCGATGACAGAGGATTCAGGTACTCAGACCCCACGCAGTGGACGGCC
CGTGTGACGATGTAGCTACTGTCTCCTAAGTCCATGAGTCTGGGGTGCGTCACCTGCCGG
 A  H  C  Y  I  D  D  R  G  F  R  Y  S  D  P  T  Q  W  T  A>

       190       200       210       220       230       240
TTCCTGGGCTTGCACGACCAGAGCCAGCGCAGCGCCCCTGGGGTGCAGGAGCGCAGGCTC
AAGGACCCGAACGTGCTGGTCTCGGTCGCGTCGCGGGGACCCCACGTCCTCGCGTCCGAG
 F  L  G  L  H  D  Q  S  Q  R  S  A  P  G  V  Q  E  R  R  L>

       250       260       270       280       290       300
AAGCGCATCATCTCCCACCCCTTCTTCAATGACTTCACCTTCGACTATGACATCGCGCTG
TTCGCGTAGTAGAGGGTGGGGAAGAAGTTACTGAAGTGGAAGCTGATACTGTAGCGCGAC
 K  R  I  I  S  H  P  F  F  N  D  F  T  F  D  Y  D  I  A  L>

       310       320       330       340       350       360
CTGGAGCTGGAGAAACCGGCAGAGTACAGCTCCATGGTGCGGCCCATCTGCCTGCCGGAC
GACCTCGACCTCTTTGGCCGTCTCATGTCGAGGTACCACGCCGGGTAGACGGACGGCCTG
 L  E  L  E  K  P  A  E  Y  S  S  M  V  R  P  I  C  L  P  D>
```

FIGURE 3A

370 380 390 400 410 420

GCCTCCCATGTCTTCCCTGCCGGCAAGGCCATCTGGGTCACGGGCTGGGGACACACCCAG

CGGAGGGTACAGAAGGGACGGCCGTTCCGGTAGACCCAGTGCCCGACCCCTGTGTGGGTC

A S H V F P A G K A I W V T G W G H T Q>

430 440 450 460 470 480

TATGGAGGCACTGGCGCGCTGATCCTGCAAAAGGGTGAGATCCGCGTCATCAACCAGACC

ATACCTCCGTGACCGCGCGACTAGGACGTTTTCCCACTCTAGGCGCAGTAGTTGGTCTGG

Y G G T G A L I L Q K G E I R V I N Q T>

490 500 510 520 530 540

ACCTGCGAGAACCTCCTGCCGCAGCAGATCACGCCGCGCATGATGTGCGTGGGCTTCCTC

TGGACGCTCTTGGAGGACGGCGTCGTCTAGTGCGGCGCGTACTACACGCACCCGAAGGAG

T C E N L L P Q Q I T P R M M C V G F L>

550 560 570 580 590 600

AGCGGCGGCGTGGACTCCTGCCAGGGTGATTCCGGGGGACCCCTGTCCAGCGTGGAGGCG

TCGCCGCCGCACCTGAGGACGGTCCCACTAAGGCCCCCTGGGGACAGGTCGCACCTCCGC

S G G V D S C Q G D S G G P L S S V E A>

610 620 630 640 650 660

GATGGGCGGATCTTCCAGGCCGGTGTGGTGAGCTGGGGAGACGGCTGCGCTCAGAGGAAC

CTACCCGCCTAGAAGGTCCGGCCACACCACTCGACCCCTCTGCCGACGCGAGTCTCCTTG

D G R I F Q A G V V S W G D G C A Q R N>

670 680 690 700 710 720

AAGCCAGGCGTGTACACAAGGCTCCCTCTGTTTCGGGACTGGATCAAAGAGAACACTGGG

TTCGGTCCGCACATGTGTTCCGAGGGAGACAAAGCCCTGACCTAGTTTCTCTTGTGACCC

K P G V Y T R L P L F R D W I K E N T G>

FIGURE 3B

```
GTATAG

CATATC

 V   *>
```

FIGURE 3C

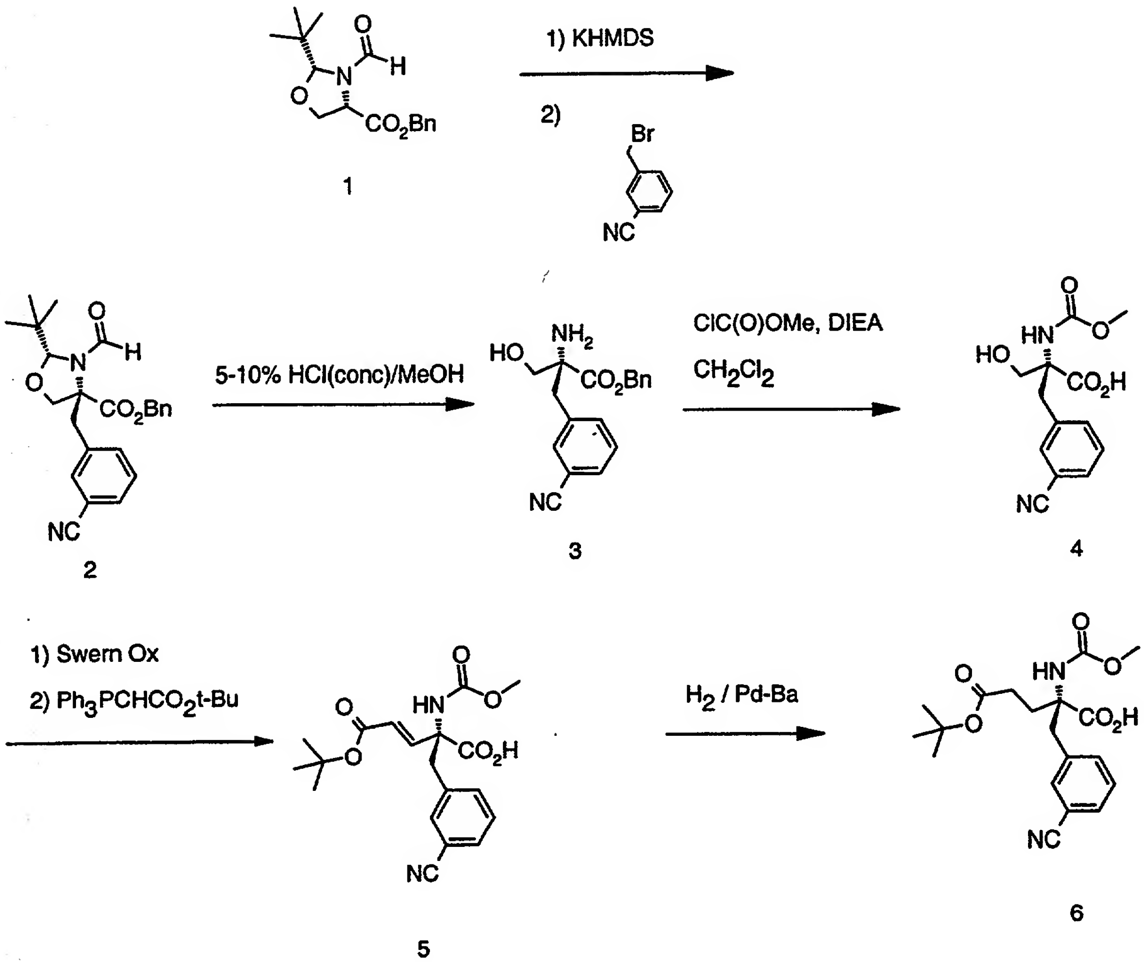

1) KHMDS
2)
Br
NC
1
5-10% HCl(conc)/MeOH
2
3
ClC(O)OMe, DIEA
CH_2Cl_2
4
1) Swern Ox
2) Ph_3PCHCO_2t-Bu
5
H_2 / Pd-Ba
6

FIGURE 4A

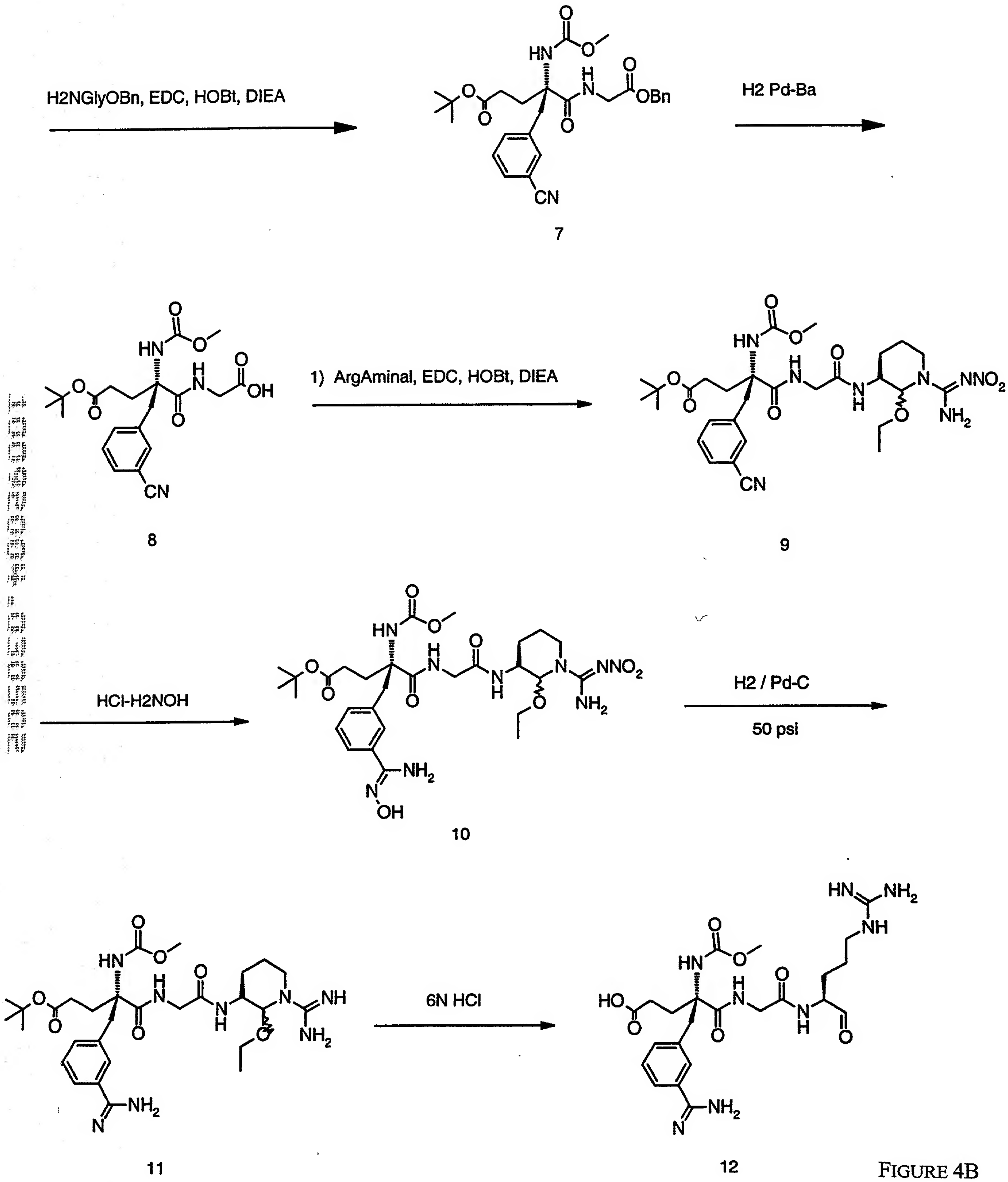

H2NGlyOBn, EDC, HOBt, DIEA
7
H2 Pd-Ba
8
1) ArgAminal, EDC, HOBt, DIEA
9
HCl-H2NOH
10
H2 / Pd-C
50 psi
11
6N HCl
12

FIGURE 4B

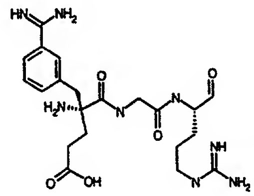
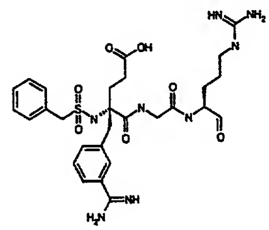
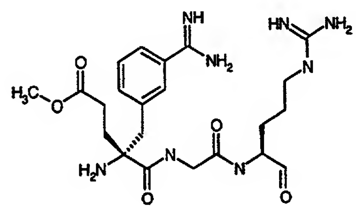
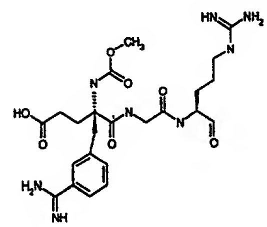
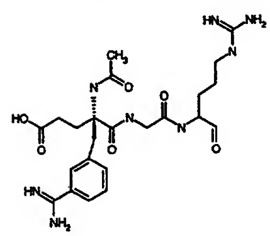
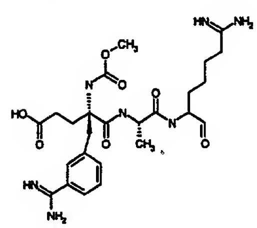
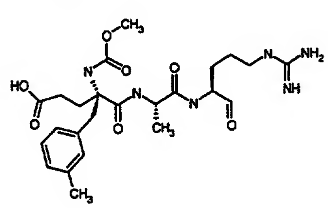
Compound	Structure
A	
B	
C	
D	
E	
F	
G	

FIGURE 5A

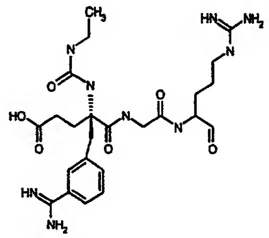
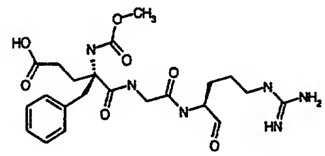
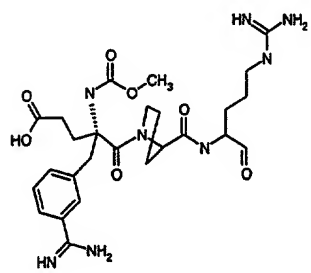
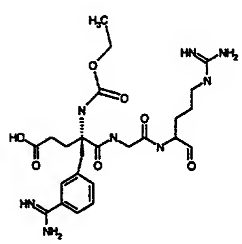
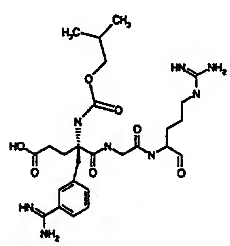
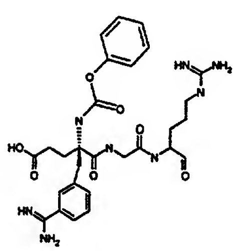
Compound	Structure
H	
I	
J	
K	
L	
M	

FIGURE 5B